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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

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PATENT DOCKET ADMINISTRATOR
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	EXAMINER	
KWON,J		

ART UNIT PAPER NUMBER

DATE MAILED: 08/22/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Application No.

09/439,320

Approant(s

Examiner

Office Action Summary

Kwon, John

Group Art Unit 3747

Moss et al



X Responsive to communication(s) filed on Jul 6, 2000	
This action is FINAL .	
Since this application is in condition for allowance except for for in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C	
A shortened statutory period for response to this action is set to e is longer, from the mailing date of this communication. Failure to application to become abandoned. (35 U.S.C. § 133). Extensions 37 CFR 1.136(a).	respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
Claim(s)	
☐ Claim(s)	
☐ Claims	
Application Papers See the attached Notice of Draftsperson's Patent Drawing F	
☐ The drawing(s) filed on is/are objected	
☐ The proposed drawing correction, filed on	isapproveddisapproved.
☐ The specification is objected to by the Examiner.	
☐ The oath or declaration is objected to by the Examiner.	
riority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priority ur	
☐ All ☐ Some* ☐ None of the CERTIFIED copies of t	he priority documents have been
received.	
received in Application No. (Series Code/Serial Numbreceived in this national stage application from the In	
	iternational bureau (i C) Title 17.2(a)).
*Certified copies not received: Acknowledgement is made of a claim for domestic priority	under 35 U.S.C. § 119(e).
Attachment(s)	
☐ Notice of References Cited, PTO-892	
	s) <u>5</u>
☐ Interview Summary, PTO-413	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	
☐ Notice of Informal Patent Application, PTO-152	
SEE DEFICE ACTION ON TH	IF FOLLOWING PAGES

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DETAILED ACTION

Housekeeping

Applicant(s) is(are) suggested to list a current telephone number, a facsimile number and a list of the attachments, if any, under the signature of the attorney/applicant for each response to the Office action(s) in order to expedite and make accurate the prosecution of the application.

1. The submission of the Information Disclosure Statement dated November 12, 1999 and July 6, 2000 has been received and fully considered. No further Information Disclosure Statement is in the records.

Drawings

2. The submission of the formal drawings is approved.

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless --
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-4, 6, 9, 11, 13, 15-17, 19, 20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by the French Pat. 876,285. The French patent discloses an impeller located

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between two radially separable walls of a regenerative type fuel pump. The cross-sectional area at the inlet flow is greater than the cross-sectional area at the outlet area (See Fig. 3).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 5, 7, 8, 10, 12, 14, 18, are rejected under 35 U.S.C. 103(a) as being unpatentable over the French Pat. 876,285. The French patent discloses an impeller located between two radially separable walls of a regenerative type fuel pump. The cross-sectional area at the inlet flow is greater than the cross-sectional area at the outlet area (See Fig. 3). The differences between the prior art reference and the instant invention are the shape of the flow path (i.e., asymmetrically in the first/second side of the wall), the specific reduction between the inlet area and the outlet area. It would have been considered to be an obvious choice of mechanical design because one skilled in this art is familiar with basic fluid mechanic and normally has the laboratory test facilities. To optimize or select the suitable flow path reduction between the inlet area and the outlet area would be within the ability of ordinary skilled in this art.

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Contact Information

Any inquiry concerning this communication should be directed to Examiner Kwon at telephone number (703) 308-1046 and facsimile numbers (703) 305-3588. The examiner can normally be reached on Monday thru Friday from 8:30 AM to 5:00 PM.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

> John T. Kwon **Primary Examiner** Art Unit 3747

August 11, 2000 Enclosure(s);

See the attachment(s) section of the Office Action Summary.